

FIG. 1

FIG. 2A

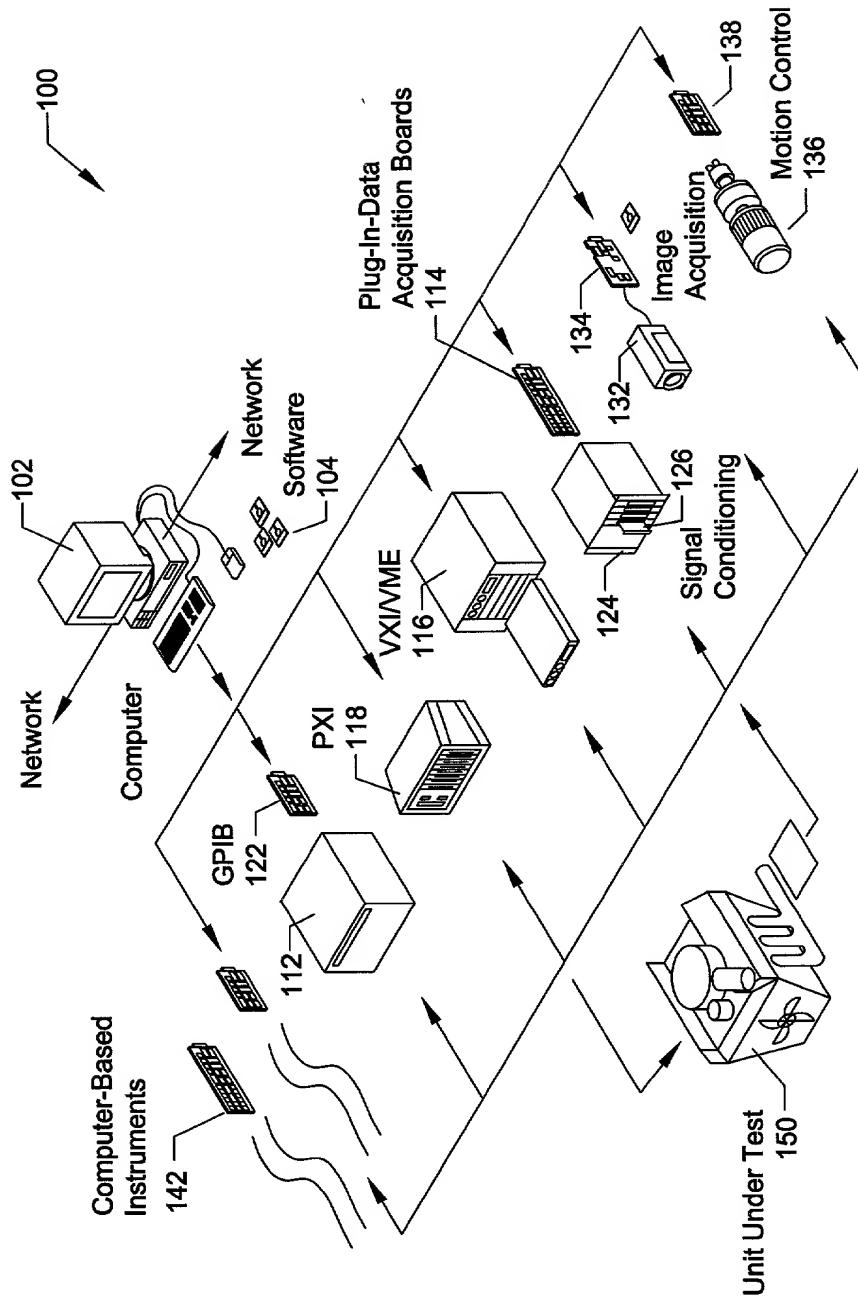
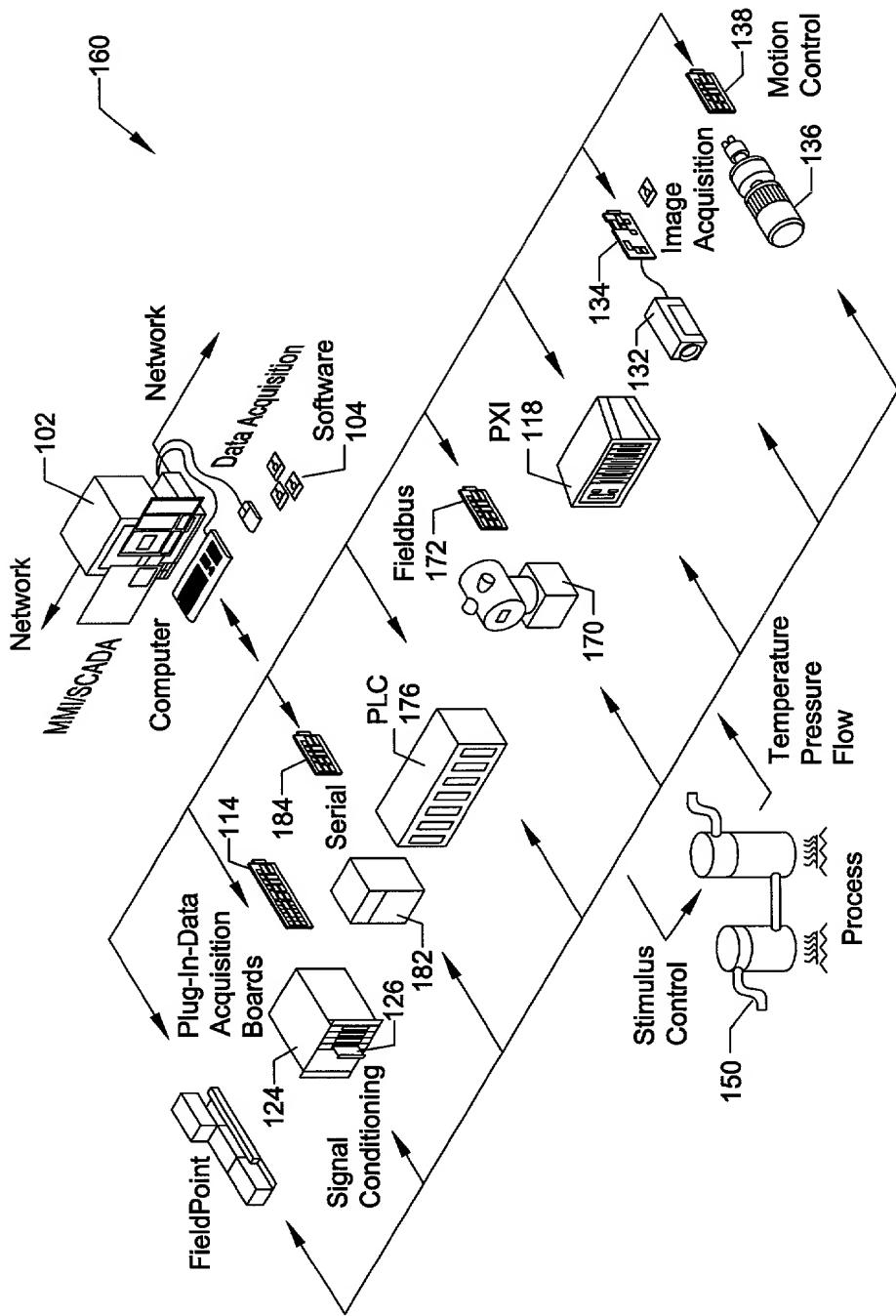


FIG. 2B



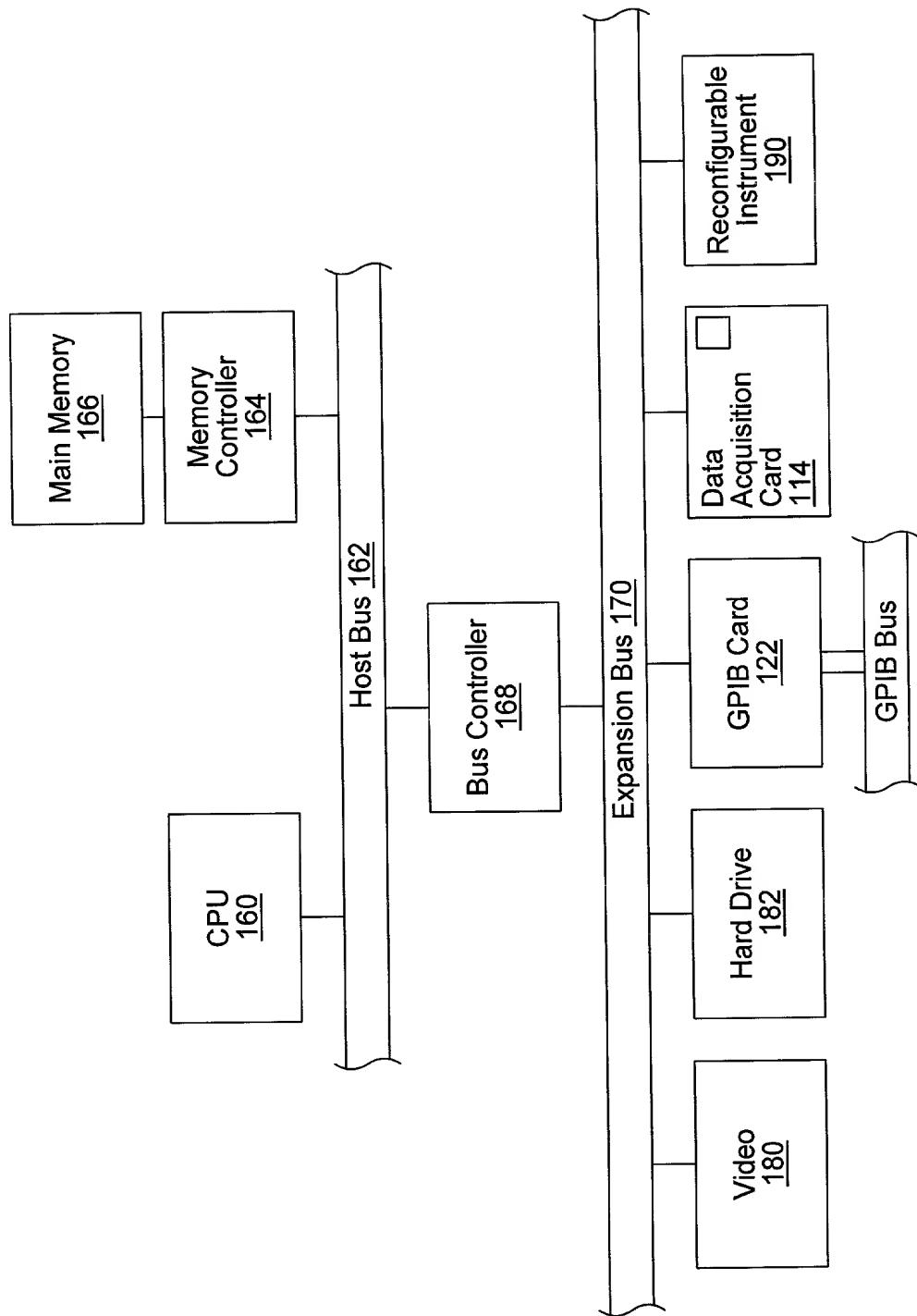


FIG. 3

Developer creates a graphical program generation (GPG) program, wherein the GPG program is operable to generate a plurality of graphical programs, based on received information
200

Specify program information, e.g., in response to user input, wherein the program information specifies desired functionality to be implemented in a graphical program
204

execute graphical program generation (GPG) program
206

GPG program receives information specifying functionality for a graphical program (or graphical program portion)
208

GPG program programmatically generates a graphical program (or graphical program portion) to implement the specified functionality
210

FIG. 4

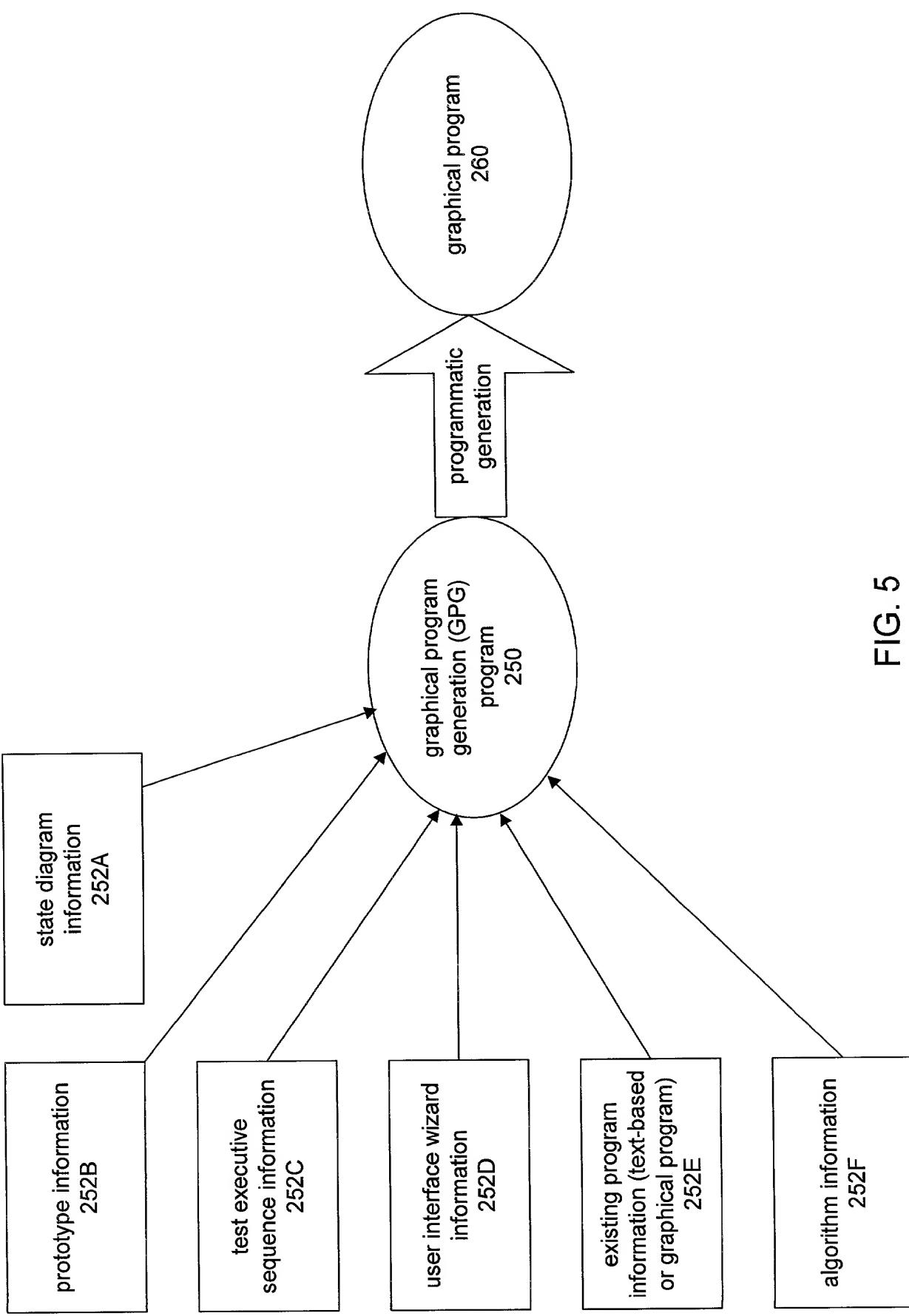


FIG. 5

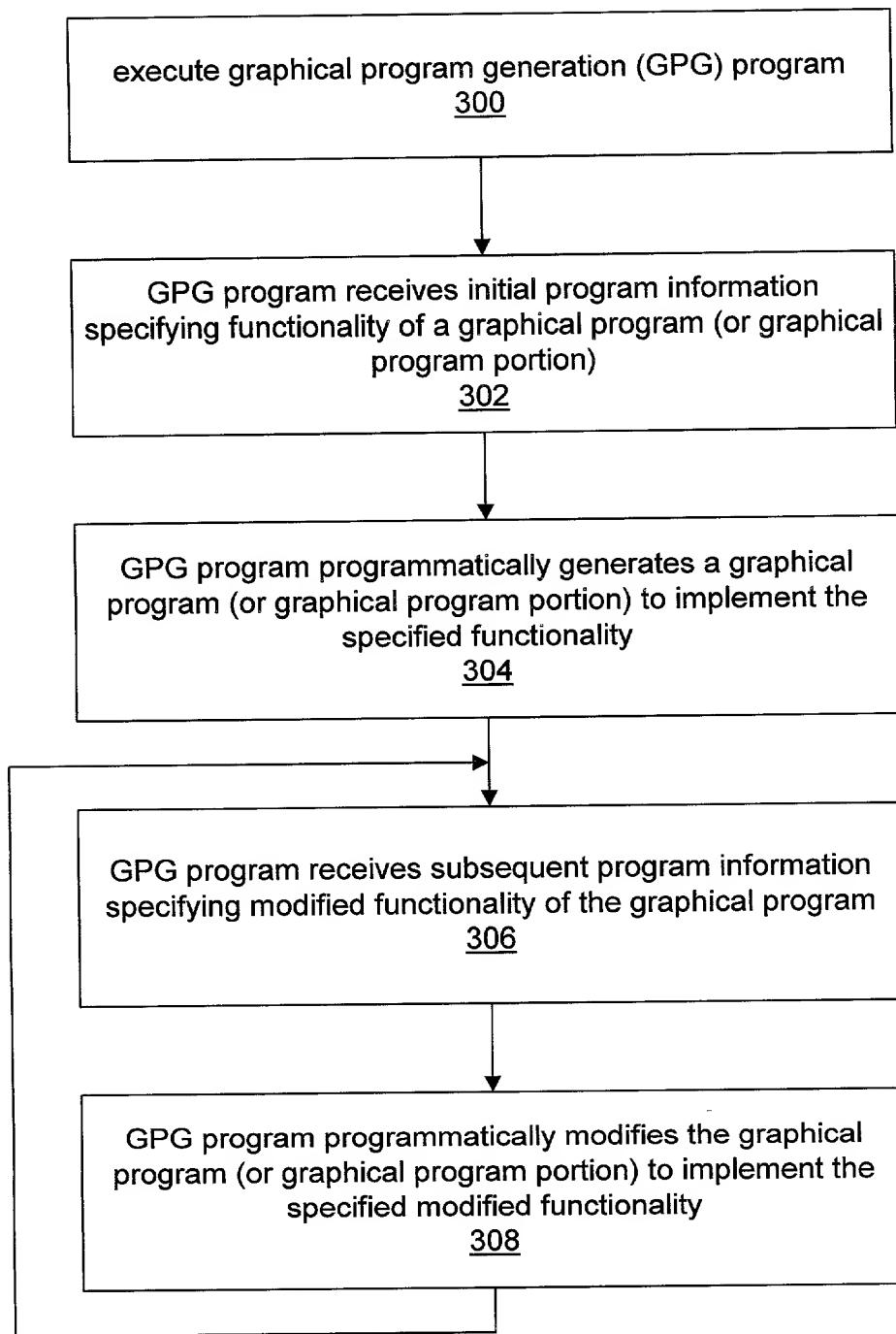


FIG. 6

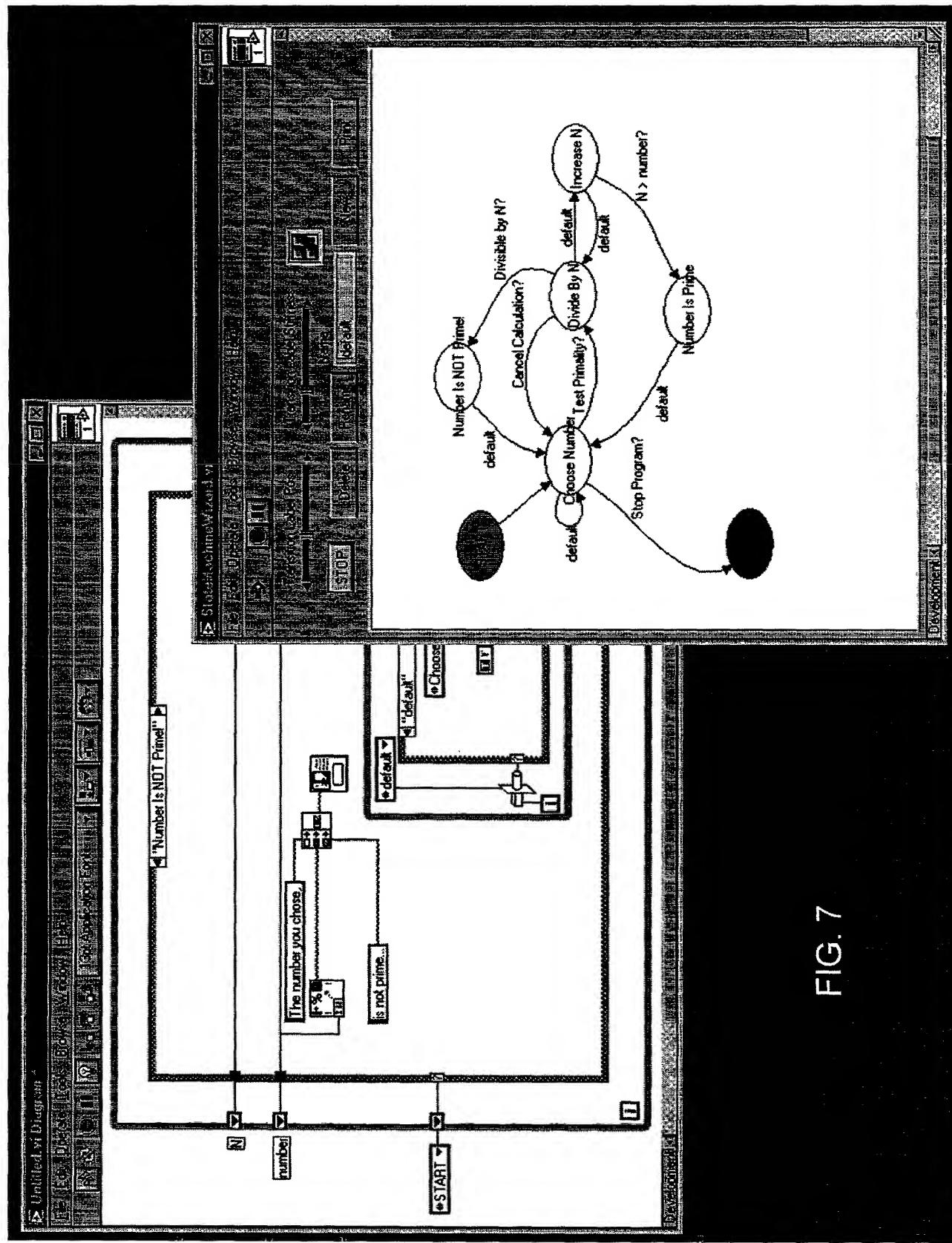


FIG. 7

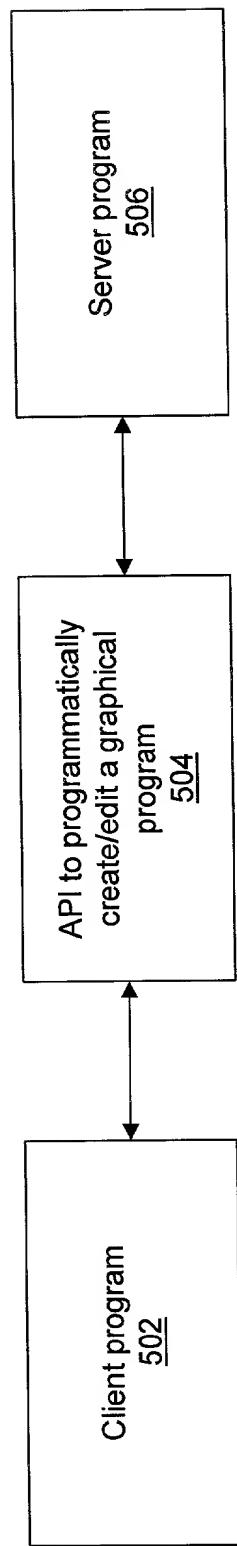


FIG. 8

Open Application Reference Node

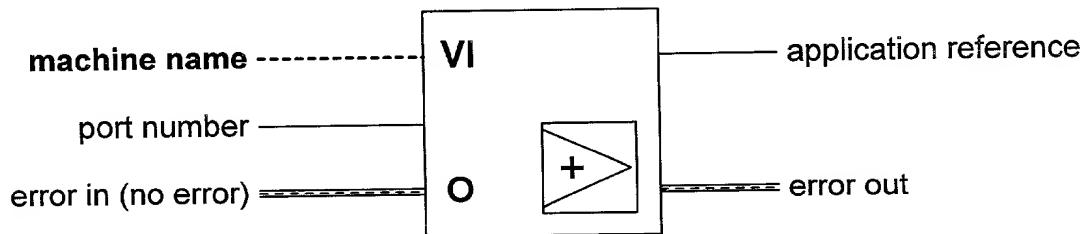


FIG. 9

Open VI Reference Node

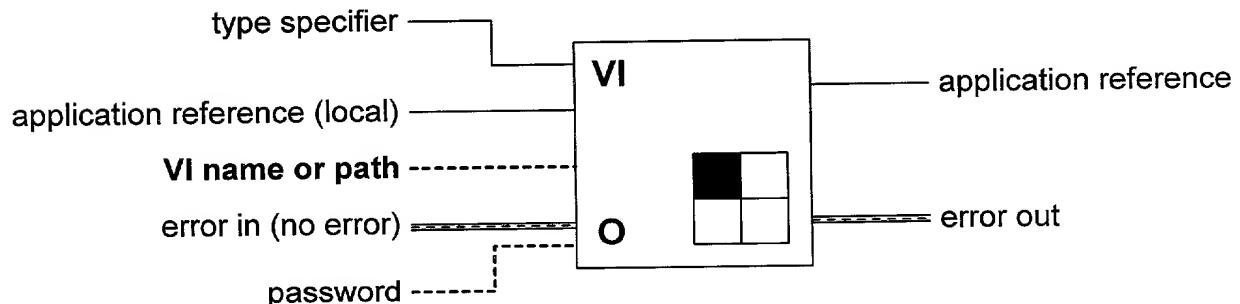


FIG. 10

New VI Reference Node

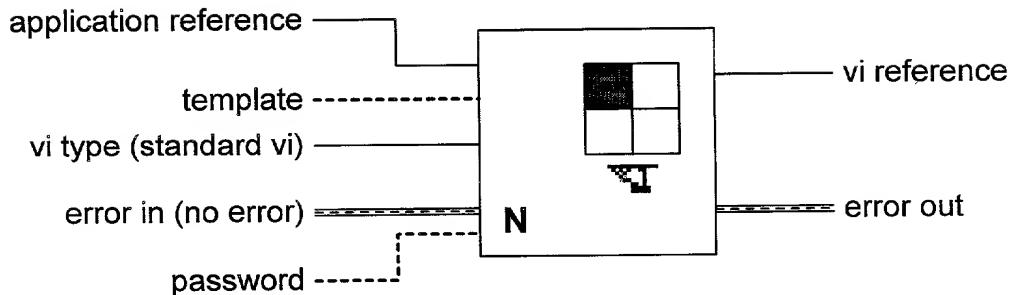


FIG. 11

Open VI Object Reference Node

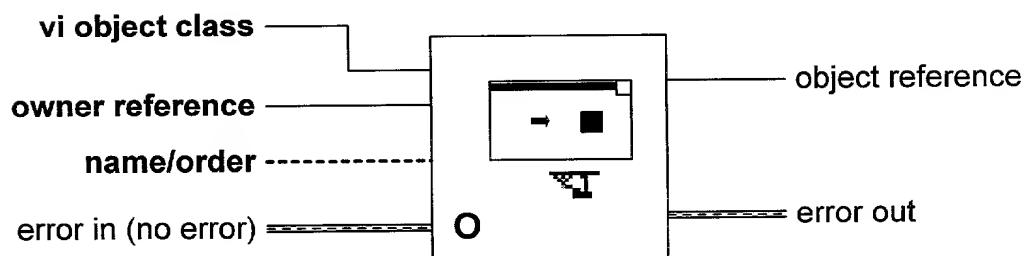


FIG. 12

New VI Object Reference Node

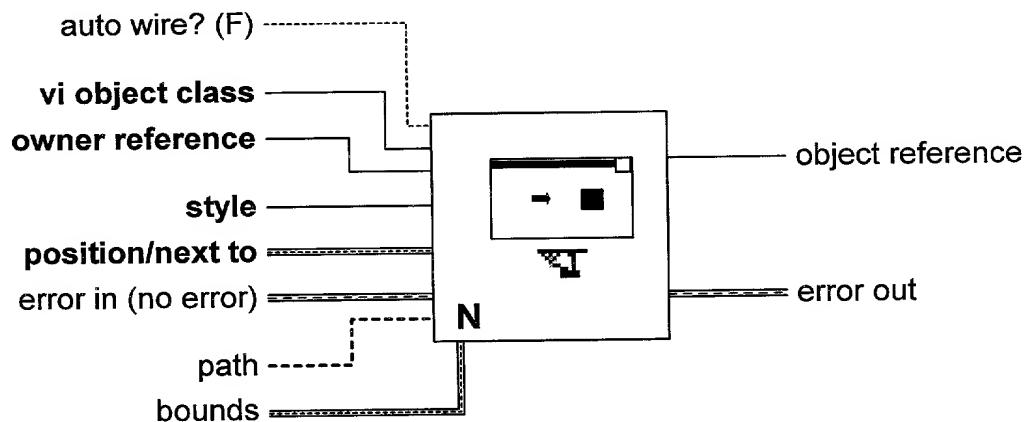


FIG. 13

Upcast Reference Node

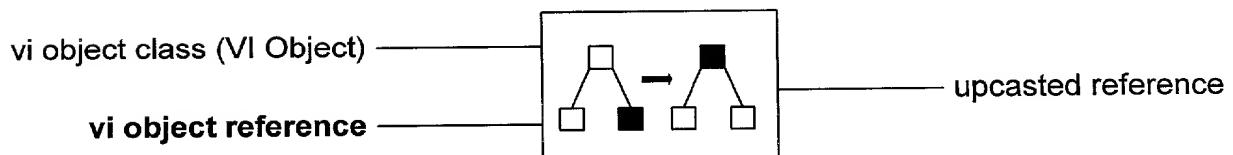


FIG. 14

Downcast Reference Node

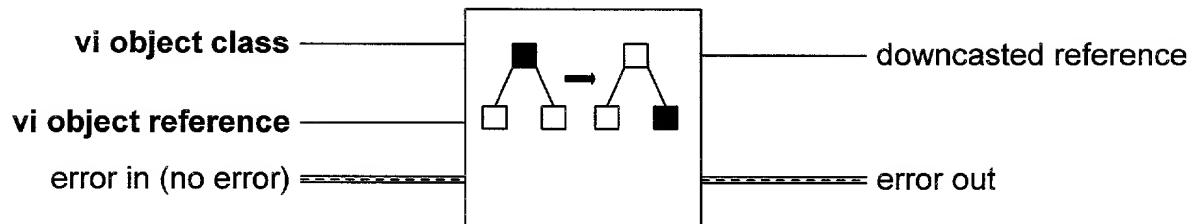


FIG. 15

Close Application or VI Reference Node

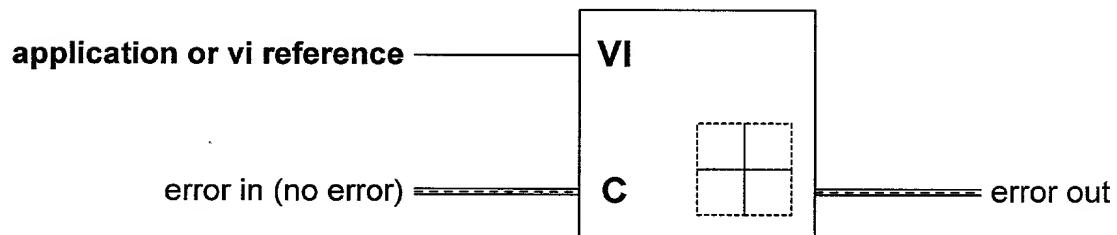


FIG. 16

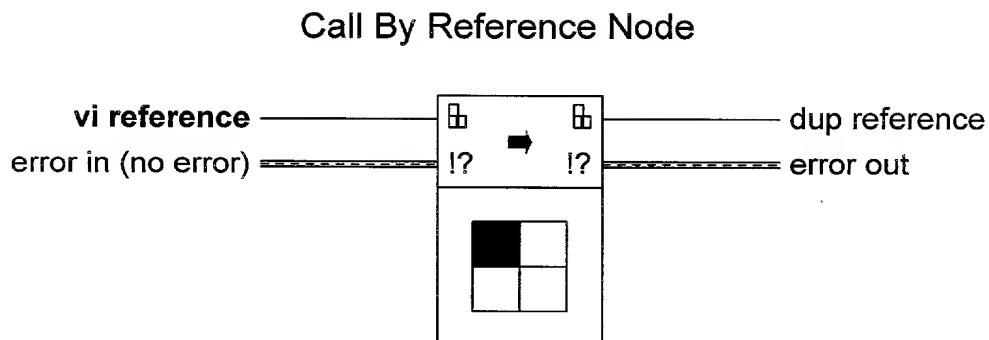


FIG. 17

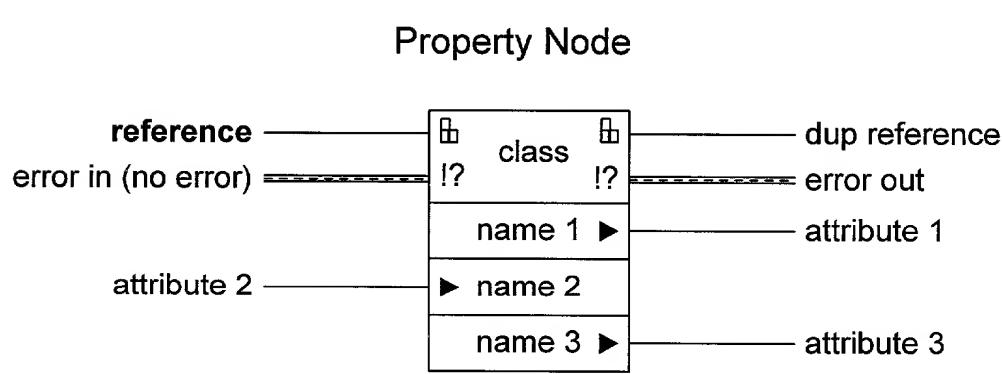


FIG. 18

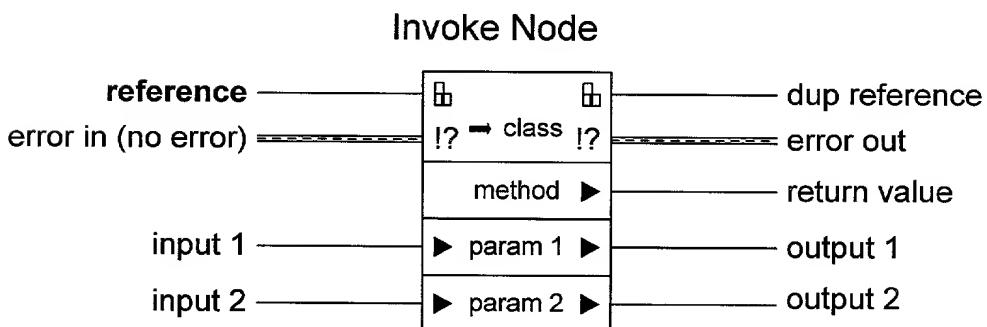


FIG. 19

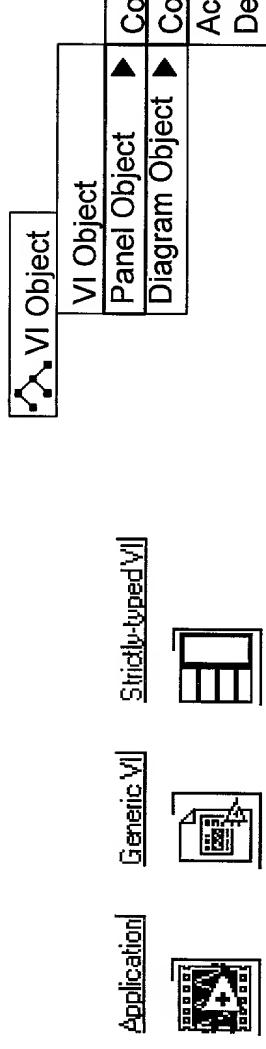


FIG. 20

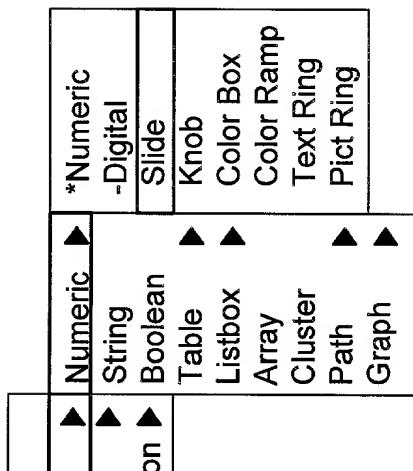


FIG. 21

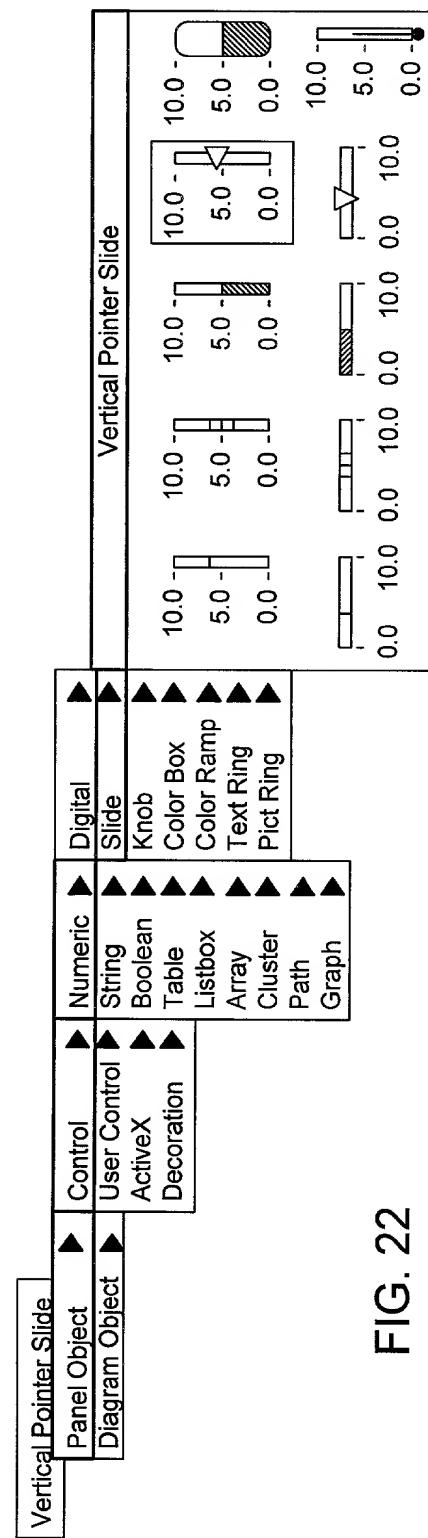


FIG. 22

FIG. 23

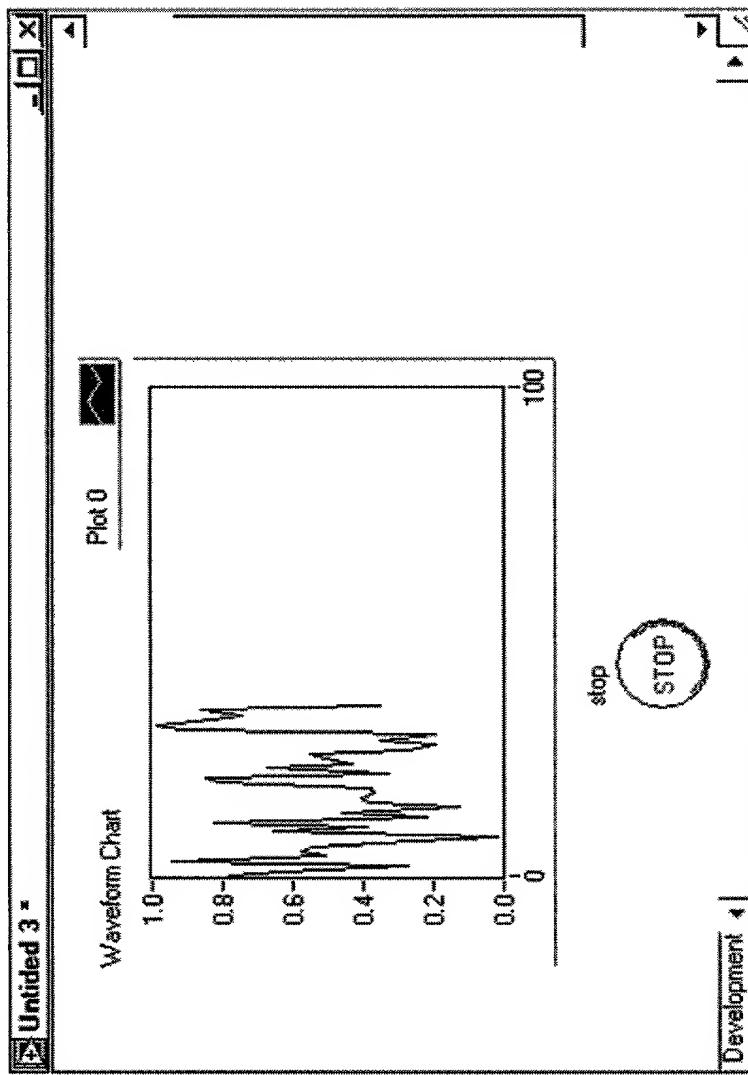
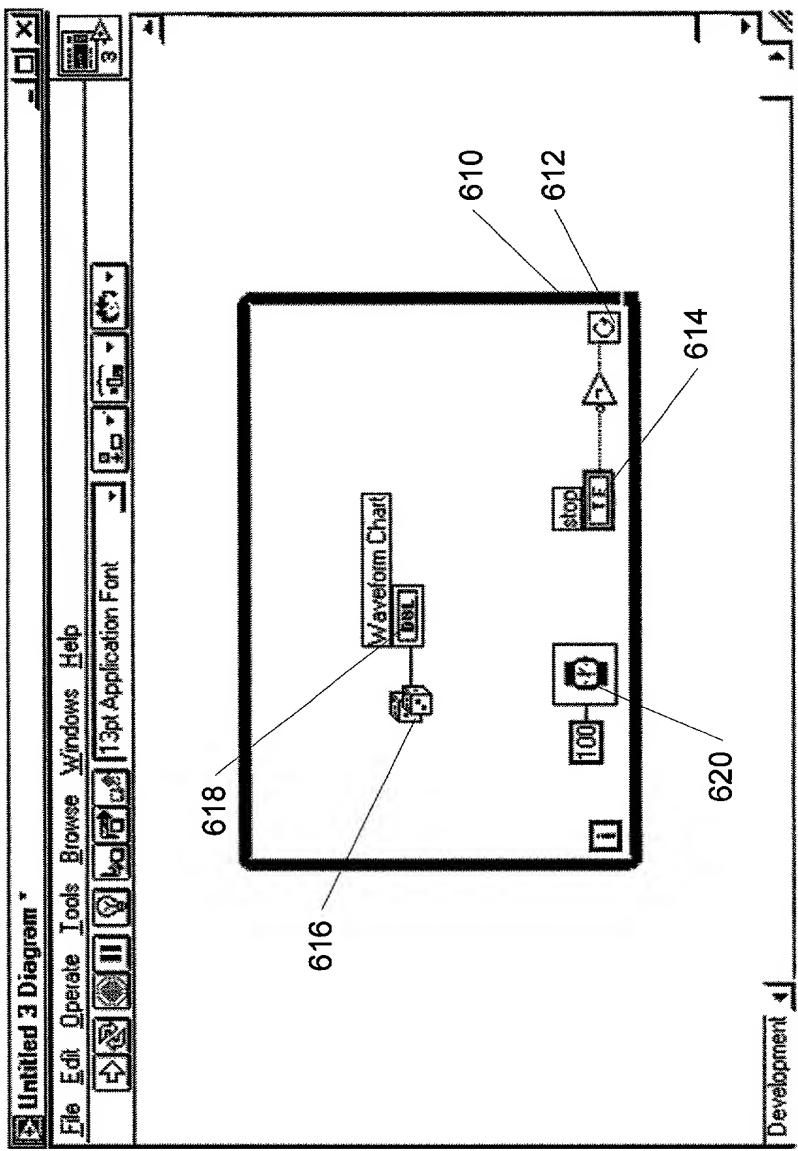


FIG. 24



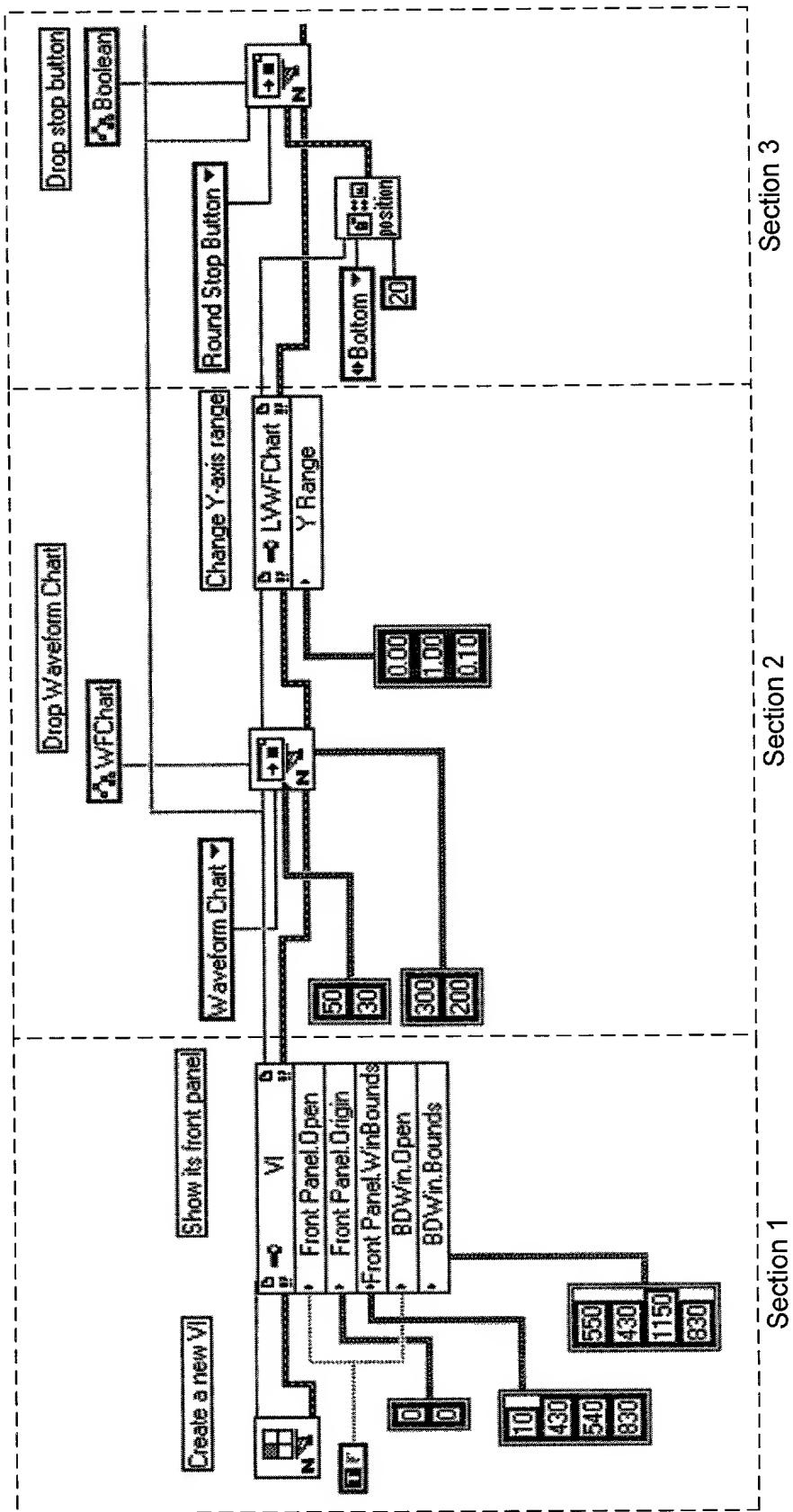


FIG. 25A

Section 3

Section 2

Section 1

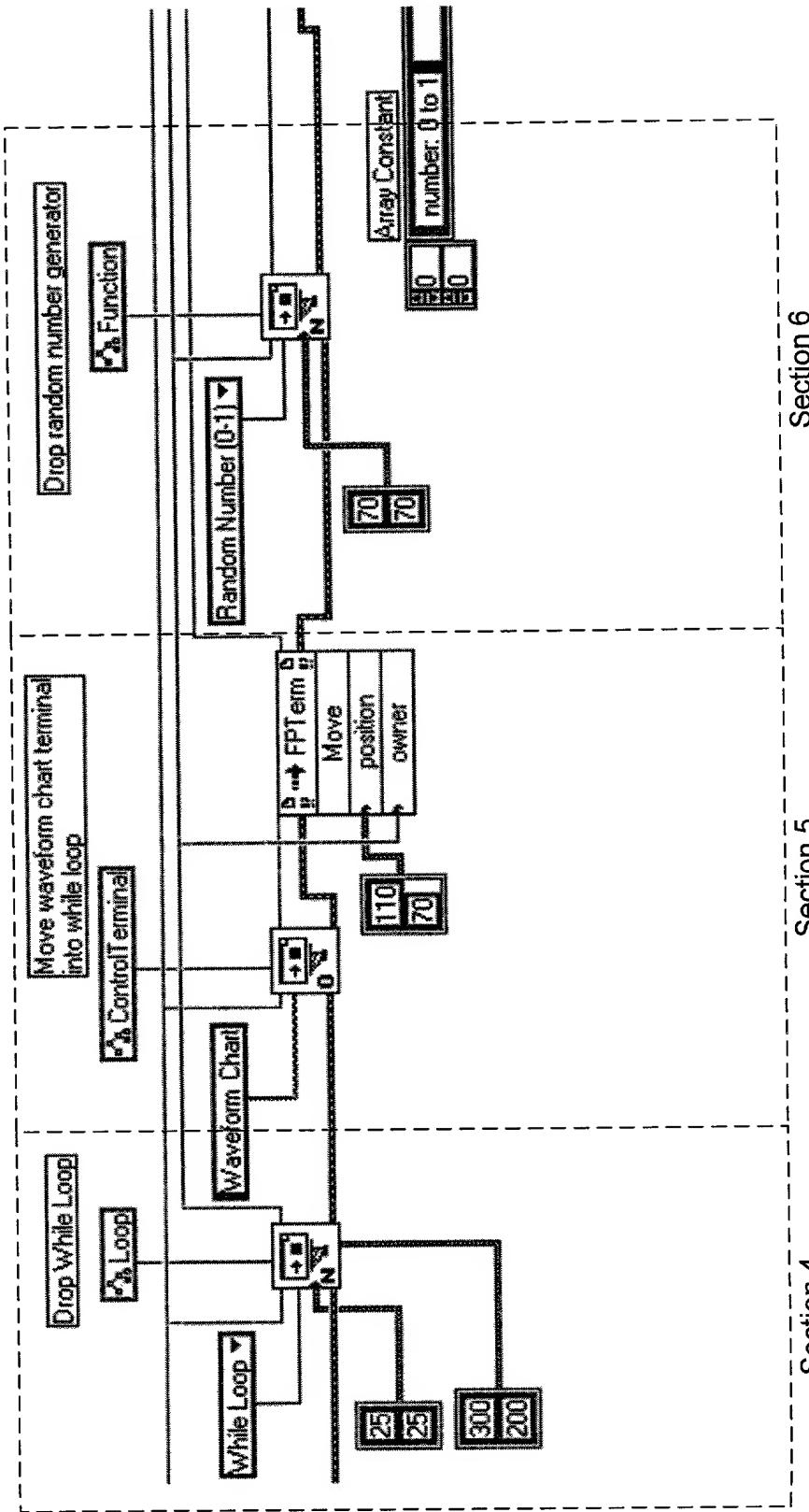
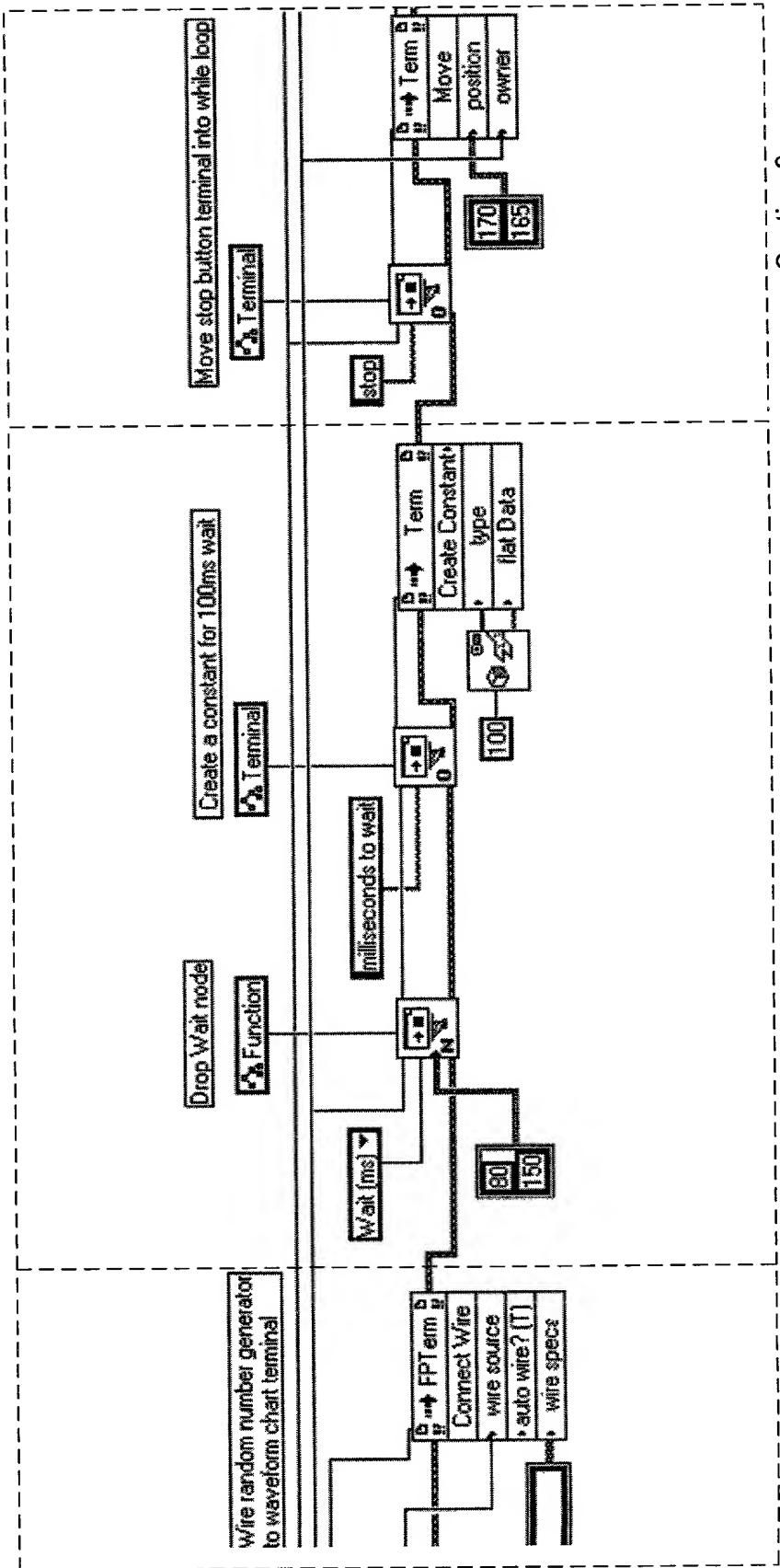


FIG.25B
(Continued)

Section 6

Section 5

Section 4

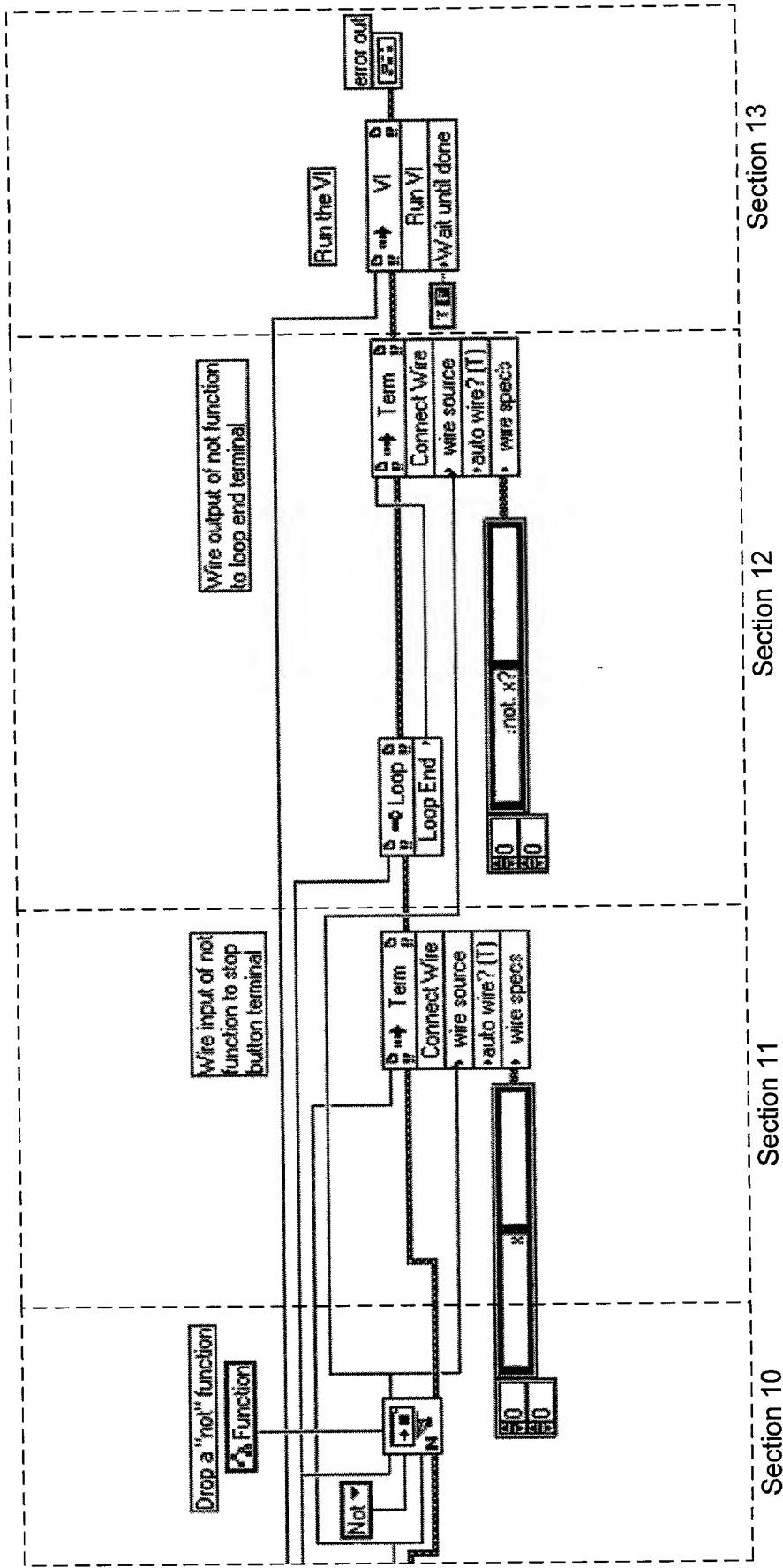


Section 7

Section 8

Section 9

FIG. 25C
(Continued)



Section 10

Section 11

Section 12

Section 13

FIG. 25D
(Continued)